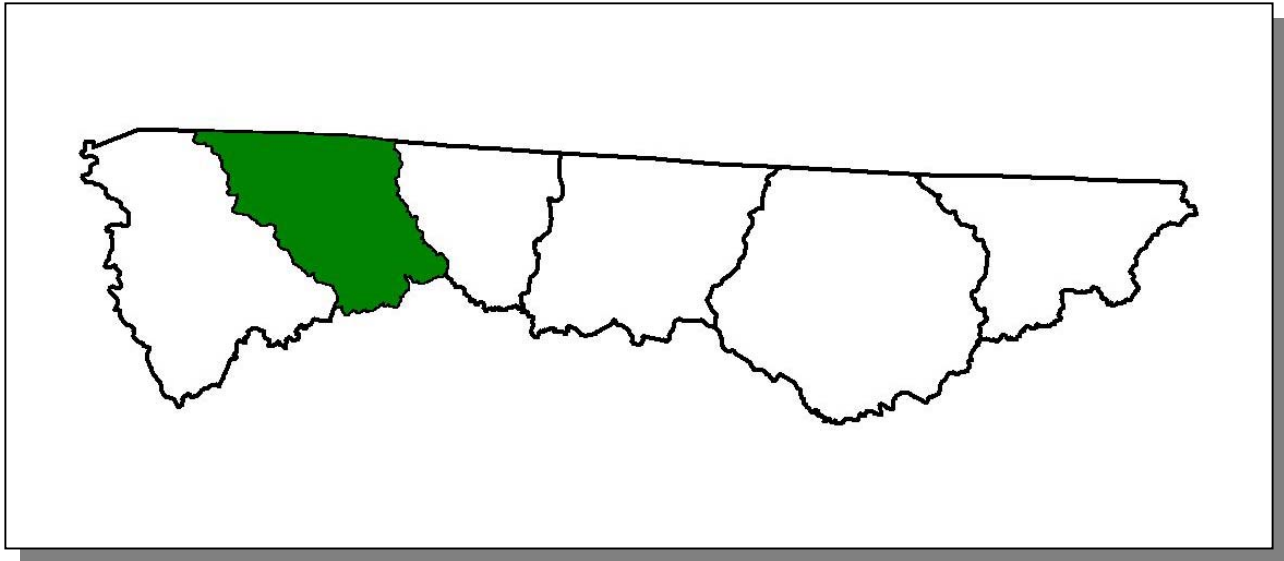
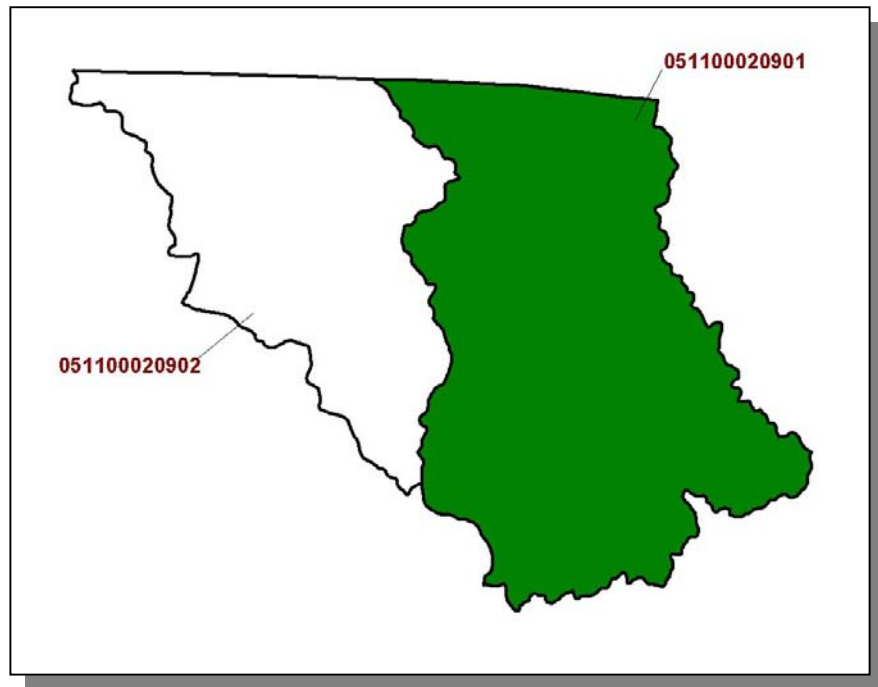


**4.2.E. 0511000209.**

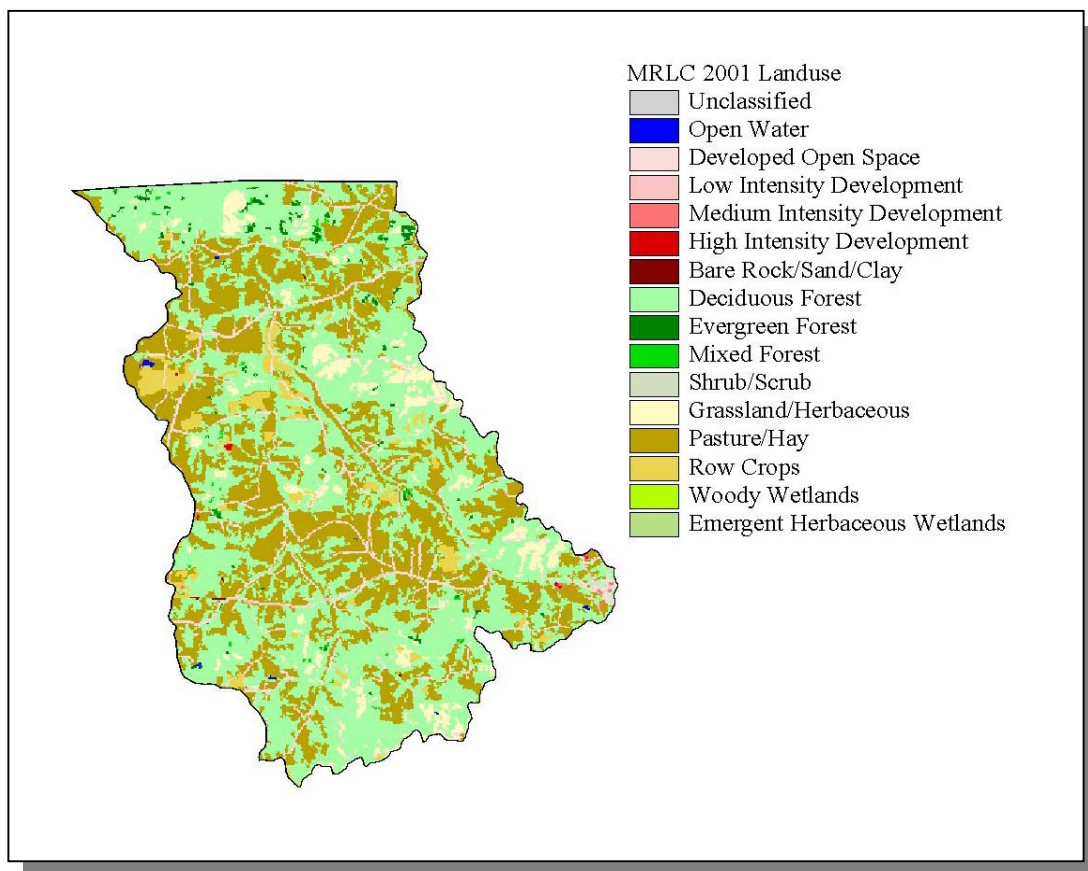


**Figure 4-96. Location of Subwatershed 0511000209.** All Tennessee Western Valley (Beech River) HUC-10 subwatershed boundaries are shown for reference.

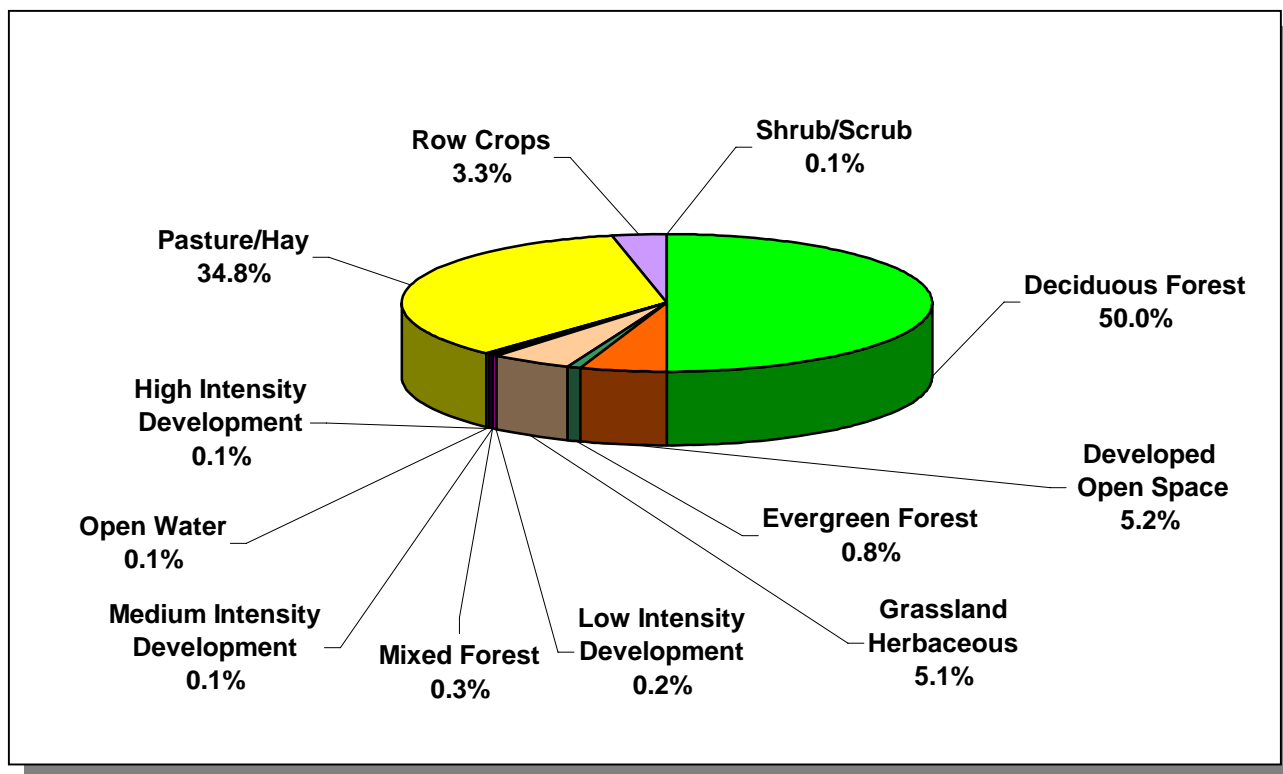
**4.2.E.i. 051100020901 (Middle Fork).**



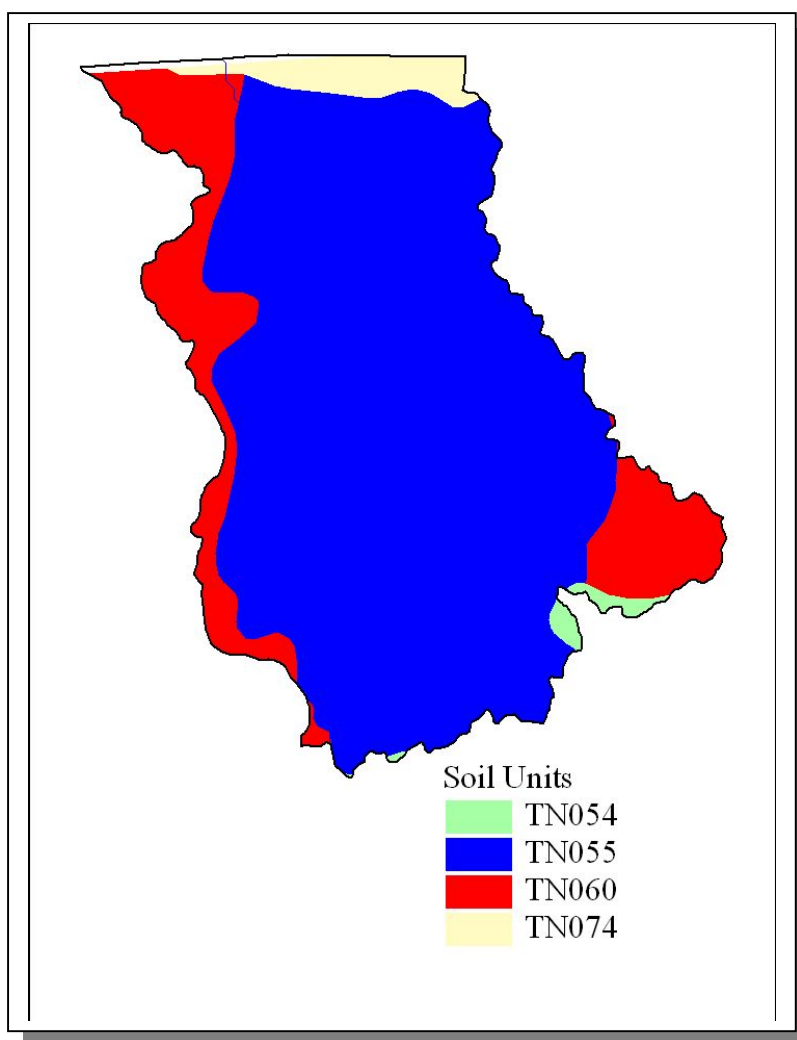
**Figure 4-97. Location of Subwatershed 051100020901.** All Barren River HUC-12 subwatershed boundaries are shown for reference.



**Figure 4-98. Illustration of Land Use Distribution in Subwatershed 051100020901.**



*Figure 4-99. Land Use Distribution in Subwatershed 051100020901.*



**Figure 4-100. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051100020901.**

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN054	0.00	C	3.04	4.84	Loam	0.32
TN055	3.00	C	2.45	5.24	Loam	0.34
TN060	5.00	B	1.30	5.32	Silty Loam	0.39
TN074	7.00	B	1.44	4.94	Loam	0.33

**Table 4-86. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051100020901.** The definition of “Hydrologic Group” is provided in Appendix IV.

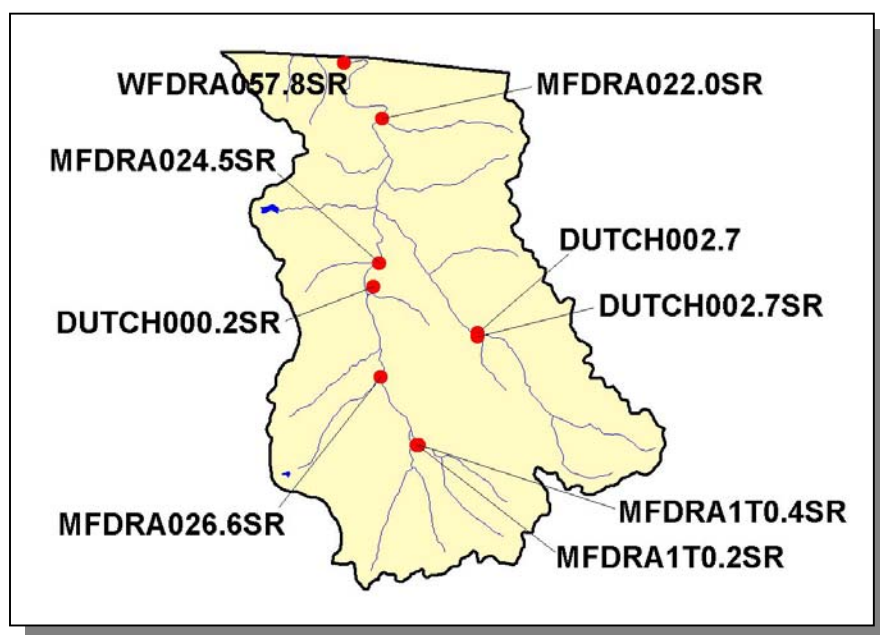
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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Sumner	103,281	121,936	130,449	6.19	6,392	7,546	8,073	26.3

**Table 4-87. Population Estimates in Subwatershed 051100020901.**

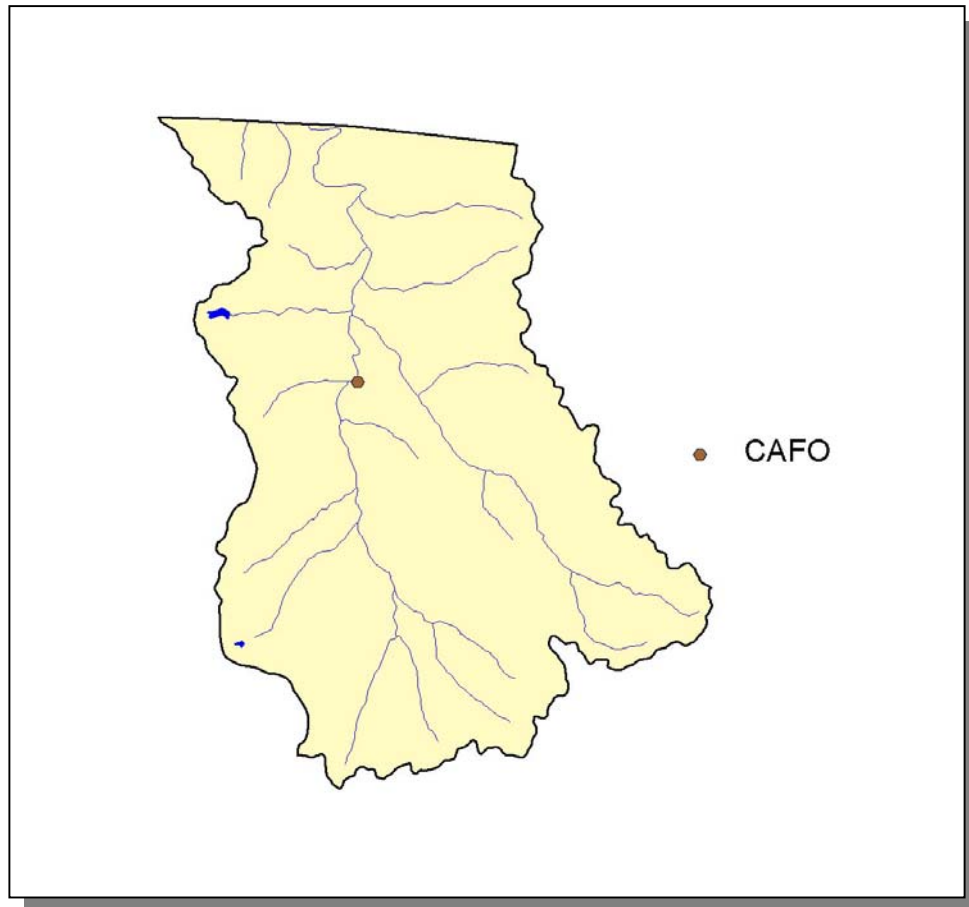
Populated Place	County	Population	NUMBER OF HOUSING UNITS			
			Total	Public Sewer	Septic Tank	Other
Westmoreland	Sumner	1,726	709	625	82	2

**Table 4-88. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 051100020901.**

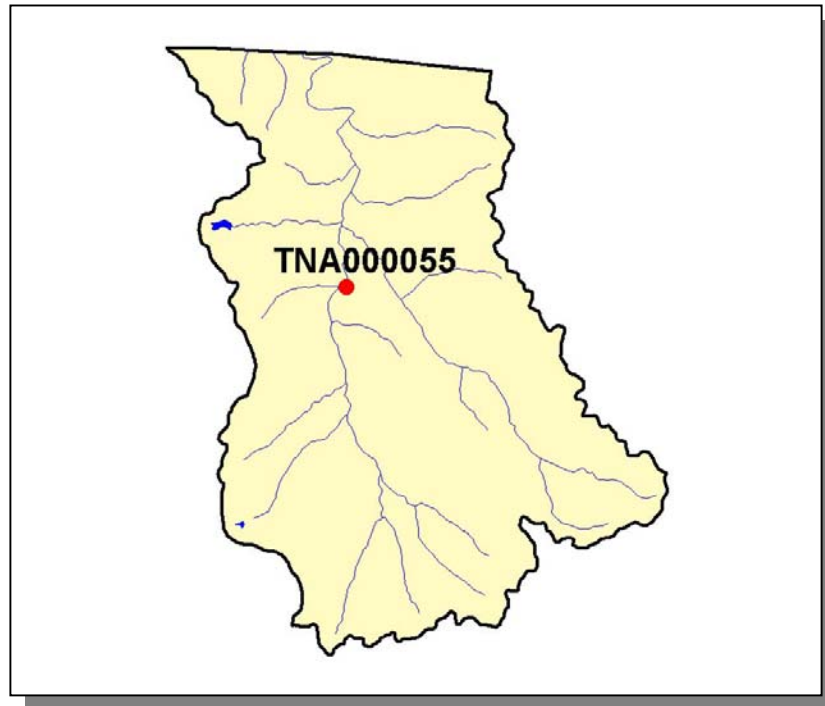


**Figure 4-101. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051100020901.** More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

**4.2.E.i.a. Point Source Contributions.**



**Figure 4-102. Location of Permits Issued in Subwatershed 051100020901.** More information, including the names of facilities, is provided in Appendix IV.



**Figure 4-103. Location of Concentrated Animal Feeding Operations (CAFO) in Subwatershed 051100020901.** More information, including the names of facilities, is provided in Appendix IV.



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**4.2.E.i.b. Nonpoint Source Contributions.**

LIVESTOCK COUNTS					
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
22,296	45,116	1,515	50	2,500	189

**Table 4-89. Summary of Livestock Count Estimates in Subwatershed 051100020901.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Sumner	22,296	45,116	1,515	50	2,500	189

**Table 4-90. Summary of Livestock Count Estimates in Sumner County.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

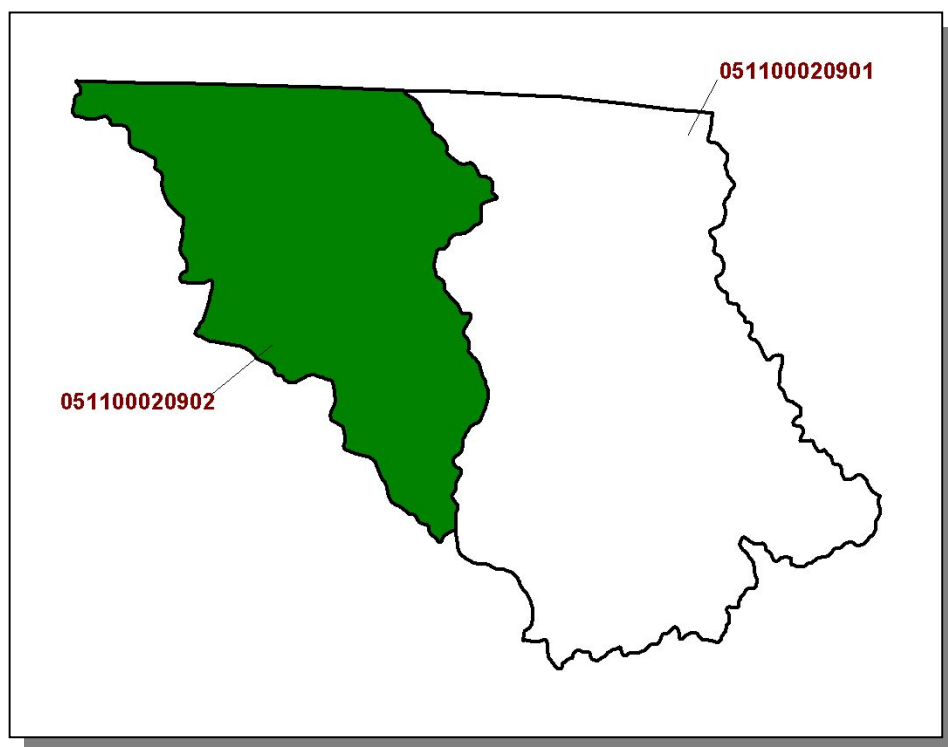
County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Sumner	88.2	88.2	2.0	6.3

**Table 4-91. Forest Acreage and Annual Removal Rates (1987-1994) in Sumner County.**

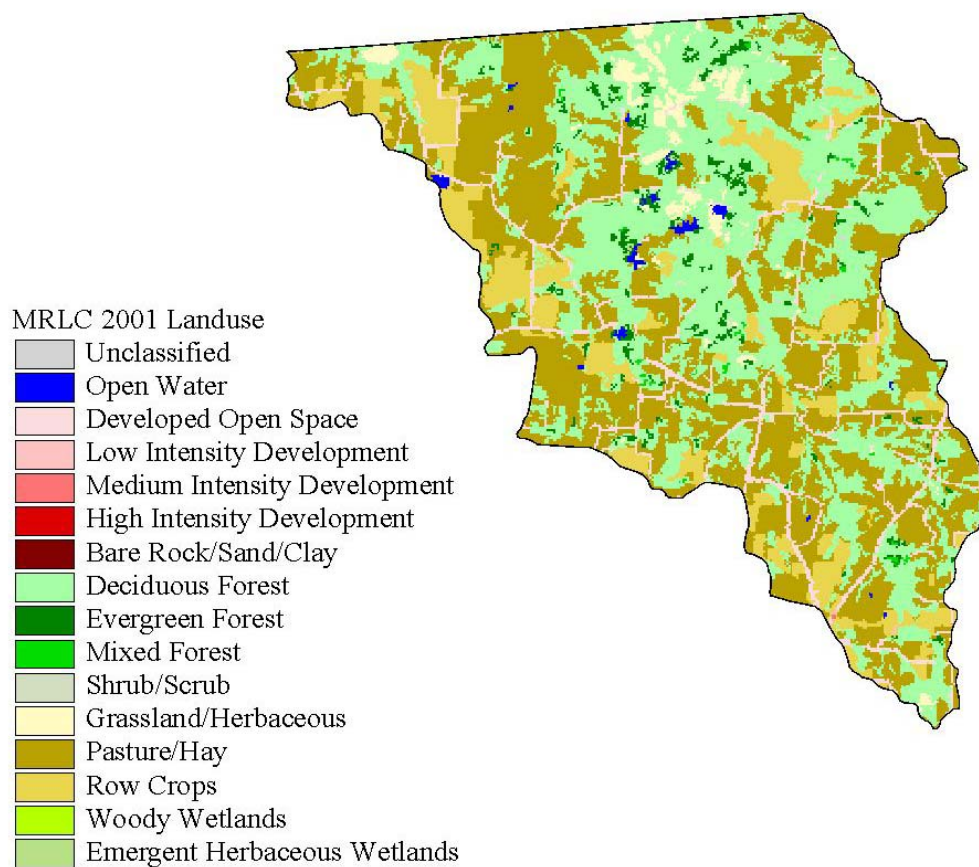
CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.46
Grass (Hayland)	0.31
Legumes (Hayland)	0.12
Legumes, Grass (Hayland)	0.23
Grass, Forbs, Legumes (Mixed Pasture)	0.54
Corn (Row Crops)	12.32
Soybeans (Row Crops)	11.27
Other Cropland not Planted	19.23
Conservation Reserve Program Lands	0.26
Farmsteads and Ranch Headquarters	0.34

**Table 4-92. Annual Estimated Total Soil Loss in Subwatershed 051100020901.**

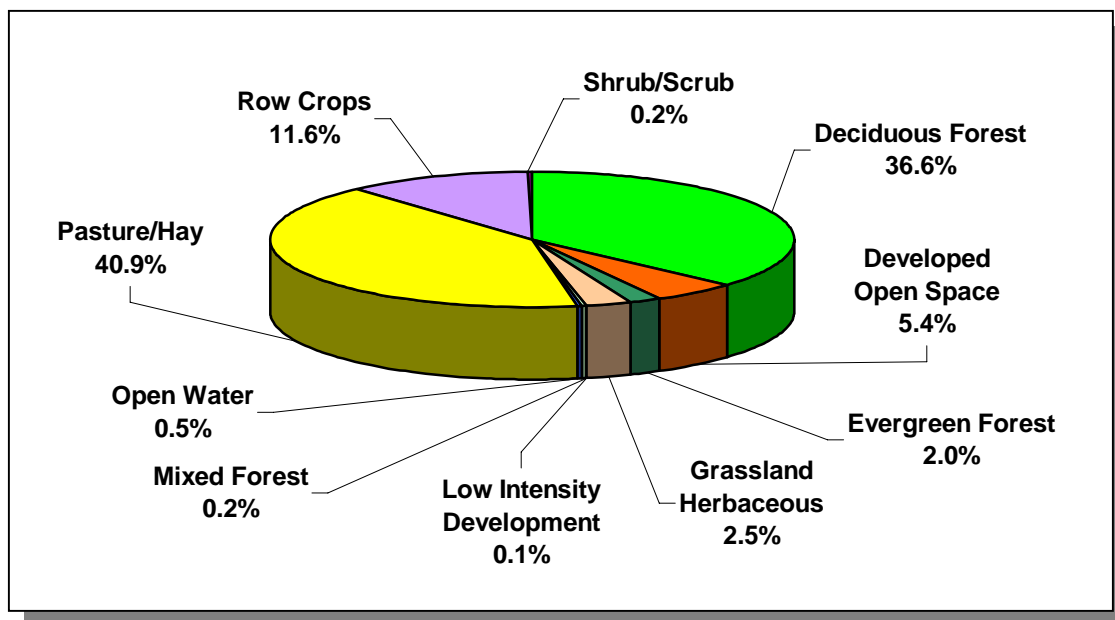
**4.2.E.ii. 051100020902 (Sulfur Fork).**



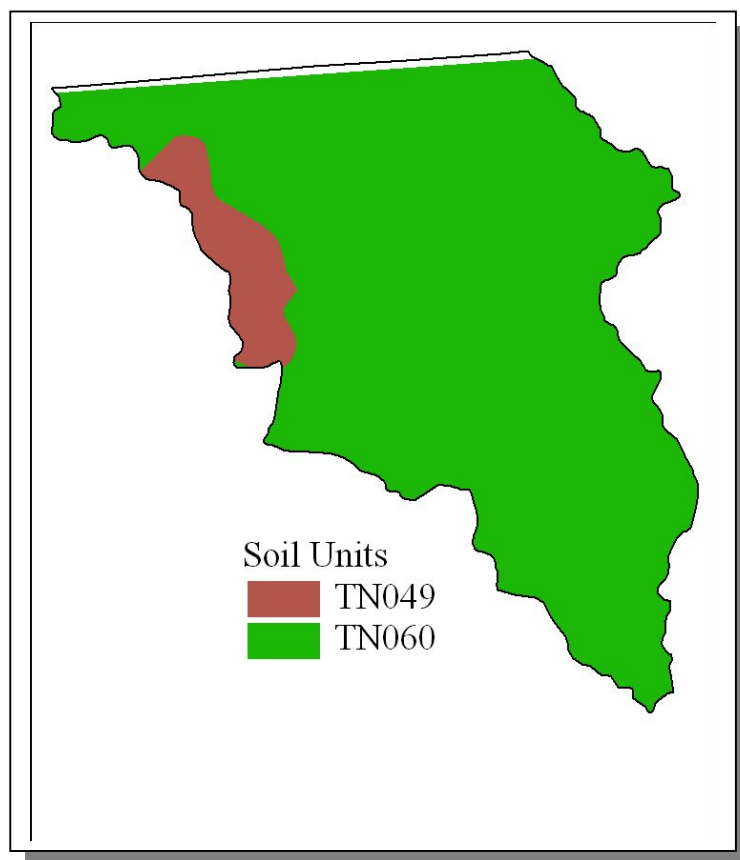
**Figure 4-104. Location of Subwatershed 051100020902.** All Barren River HUC-12 subwatershed boundaries are shown for reference.



*Figure 4-105. Illustration of Land Use Distribution in Subwatershed 051100020902.*



**Figure 4-106. Land Use Distribution in Subwatershed 051100020902.** More information is provided in Appendix IV.



**Figure 4-107. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051100020902.**

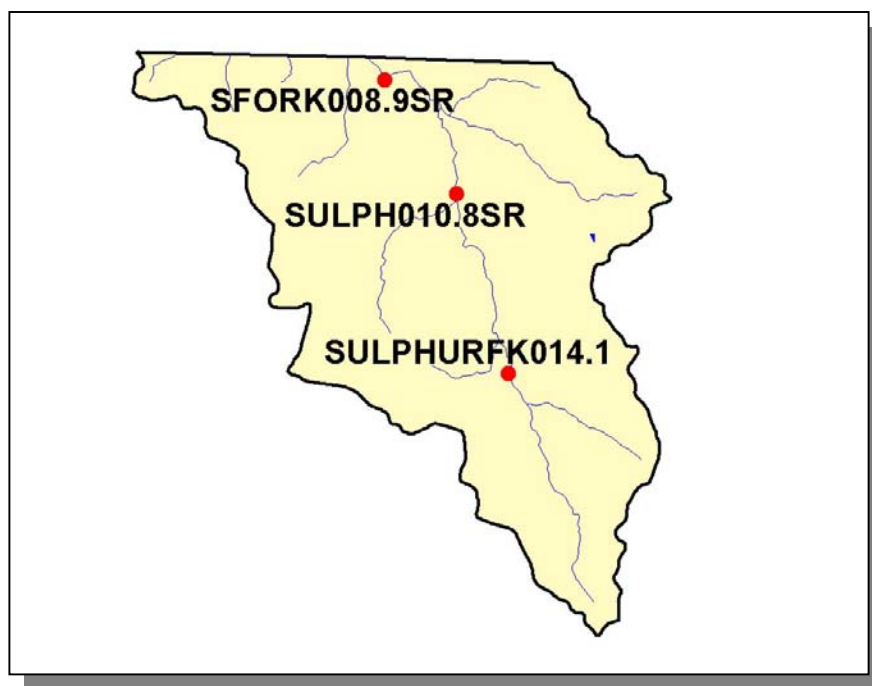
STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN049	0.00	B	1.30	5.94	Silty Loam	0.34
TN060	5.00	B	1.30	5.32	Silty Loam	0.39

**Table 4-93. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051100020902.** The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Sumner	103,281	121,936	130,449	3.90	4,030	4,758	5,090	26.3

**Table 4-94. Population Estimates in Subwatershed 051100020902.**



**Figure 4-108. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051100020902.** More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

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**4.2.E.ii.a. Point Source Contributions.**

There are no point source contributions in this subwatershed.

**4.2.E.ii.b. Nonpoint Source Contributions.**

LIVESTOCK COUNTS					
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
1,321	2,674	90	<5	148	11

**Table 4-95. Summary of Livestock Count Estimates in Subwatershed 051100020902.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Sumner	22,296	45,116	1,515	50	2,500	189

**Table 4-96. Summary of Livestock Count Estimates in Sumner County.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Sumner	88.2	88.2	2.0	6.3

**Table 4-97. Forest Acreage and Annual Removal Rates (1987-1994) in Sumner County.**

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.46
Legumes (Hayland)	0.12
Grass (Hayland)	0.31
Legumes, Grass (Hayland)	0.23
Grass, Forbs, Legumes (Mixed Pasture)	0.54
Corn (Row Crops)	12.32
Soybeans (Row Crops)	11.27
Other Cropland not Planted	19.23
Conservation Reserve Program Lands	0.26
Non-Agricultural Land Use	0.00
Farmsteads and Ranch Headquarters	0.34

**Table 4-98. Annual Estimated Total Soil Loss in Subwatershed 051100020902.**